

Installation Identity and Scope

Honeywell FC-TSRO-0824 is an eight-channel relay-output Field Termination Assembly for Safety Manager. It accepts a nominal 24 V DC input and provides fused relay contacts for controlled field loads.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	FC-TSRO-0824
Manufacturer	Honeywell
Hardware type	Eight-channel relay output FTA
System family	Safety Manager
Official source	EP-SM.MAN.6284 Issue 2.1; TSRO-0824 datasheet version 1.2

CONTROLLED ENGINEERING COPY

Record the FC-TSRO-0824 terminal assignments, fuse condition and relay-load ratings before replacement. Verify the 24 V DC drive circuit and prove each output channel under the approved safety-test procedure.

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FC-TSRO-0824

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete FC-TSRO-0824 marking and hardware revision before work.
2	Place affected safety functions in the approved maintenance state.
3	Confirm the nominal 24 V DC input and do not exceed 36 V DC.
4	Record all eight channel terminal assignments before disconnecting conductors.
5	Use only the documented 5 A fuse type and observe the ambient derating curve.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	FC-TSRO-0824
Physical interface	Safety Manager controller and documented I/O interface
Companion check	24 V DC relay-drive supply
Configuration	Eight field relay circuits and 5 A fuses
Functional proof	Approved safety proof-test record

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Confirm FC-TSRO-0824 and revision from the physical marking.
Supply	Verify 24 V DC polarity and available relay-drive current.
Channels	Record eight output terminals, loads and feedback paths.
Fuses	Check Schurter 0001.2511 or approved equivalent in the project record.
Load ratings	Confirm voltage, current and VA/W limits for every field device.
Safety state	Keep the affected function inhibited under the approved permit.
Functional test	Exercise each relay output and confirm the expected field response.
Release	Close the proof-test record and restore the safety function deliberately.

CONFIGURATION BOUNDARY

Record the FC-TSRO-0824 terminal assignments, fuse condition and relay-load ratings before replacement. Verify the 24 V DC drive circuit and prove each output channel under the approved safety-test procedure.

Expected Technical Values

PARAMETER	VALUE
Module type	Relay output Field Termination Assembly
Safety class	Up to and including SIL3
Nominal input voltage	24 V DC
Maximum input voltage	36 V DC

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	FC-TSRO-0824 and revision recorded
Electrical	24 V DC drive and fuse condition verified
Channels	Eight output paths proven
Safety proof	Cause-and-effect test accepted

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
How many relay output channels are provided by FC-TSRO-0824?	Eight relay output channels are documented.
What nominal input supply is specified for FC-TSRO-0824?	The nominal input is 24 V DC.
At what voltage does the relay pick up in FC-TSRO-0824?	The published relay pick-up voltage is 19.2 V DC.
What is the maximum fused output current for FC-TSRO-0824?	The published maximum is 5 A per documented fused output path.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Honeywell 10005-1-1	Open product page
Honeywell 10006-2-1	Open product page
Honeywell 10008-u	Open product page
Honeywell 10012-1-2	Open product page
Honeywell 10014-1-1	Open product page
Honeywell 10014-f-f	Open product page
Honeywell 10014-h-i	Open product page
Honeywell 10018-e-1	Open product page

MANUFACTURER SOURCE RECORD

Safety Manager Hardware Reference
EP-SM.MAN.6284 Issue 2.1; TSRO-0824 datasheet version 1.2

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	FC-TSRO-0824 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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